JAN 3 0 2006

TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

Docket Number (Optional) A6378C1/T45510

In re Application of: Karthik Janakiraman et al.			
Application No.: 10/674,569			
Filed: September 29, 2003			
For: GAS DISTRIBUTION SHOWERHEAD			
The owner*, Applied Materials, Inc, of100% percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number10/412,446, filed on April 1, 2003, as such term is defined in 35 U.S.C. 154 and 173, and as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.			
In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that: any such patent: granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.			
Check either box 1 or 2 below, if appropriate.			
1. For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.			
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
2. The undersigned is an attorney or agent of record. Reg. No. 39,496			
January 27, 2006			
Signature Date			
Kent J. Tobin, Reg. No. 39,496 Typed or printed name			
650-326-2400			
Telephone Number			
Terminal disclaimer fee under 37 CFR 1.20(d) is included.			
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.			
*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP § 324.			

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ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



APPLIED MATERIALS, INC. ROBERT W. MULCAHY PATENT COUNSEL P.O. BOX 450-A SANTA CLARA, CA 95052

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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

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RECORDATION DATE: 10/27/1998

REEL/FRAME: 9565/0288

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

METZNER, CRAIG R.

DOC DATE: 10/27/1998

ASSIGNOR:

SAHIN, TURGUT

DOC DATE: 10/27/1998

ASSIGNOR:

REDINBO, GREGORY F.

DOC DATE: 10/27/1998

ASSIGNOR:

NARWANKAR, PRAVIN K.

DOC DATE: 10/27/1998

ASSIGNOR:

LIU, PATRICIA M.

DOC DATE: 10/27/1998

ASSIGNEE:

APPLIED MATERIALS, INC. P.O. BOX 450A

SANTA CLARA, CALIFORNIA 95052

9565/0288 PAGE 2

SERIAL NUMBER: 09179921

PATENT NUMBER:

FILING DATE: 10/27/1998

ISSUE DATE:

SHIRLIE SIMON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

med refer/98



11-10-1998



PODN PTO-1595 (Rev. 6-93) OND No. 0651-0011 (exp. 4/94)		U.S. Department of Commerce Patent And Trademark Office
To the Honorable Commissioner of Patents and \ 1008750	092	0 =
Name of conveying party(ies):	2. Name and address of receiving party(ies):)21 321
Date CRAIG R. METZNER 10/27/1998 TURGUT SAHIN 10/27/1998 GREGORY F. REDINBO 10/27/1998 PRAVIN K. NARWANKAR 10/27/1998 PATRICIA M. LIU 10/27/1998	Name: Applied Materials, Inc. Internal Address: P.O. Box 450-A Street Address:	10,10
Additional name(s) of conveying party(ies) attached?YesX_No	Succe Additions.	
3. Nature of conveyance:	City: Santa Clara State:	CA Zip: 95052
X Assignment Merger Security Agreement Change of Name Other	Additional name(s) & address(es) attached?	Yes <u>X</u> No
Execution Date:		<u></u>
If this document is being filed together with a new application, the execution of A. Patent Application No.(s) 09//79921 B. Patent No.(s) Additional numbers attached? Yes _X_ No	late of the application is: 10/27/1998 (Date of Fili	ing)
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents inve	olved:
Name: Patent Counsel Internal Address: APPLIED MATERIALS, INC. Street Address: P.O. Box 450-A City: Santa Clara State: CA 7:ip: 95052	7. Total fee (37 C.F.R. 3.41) Enclosed X Authorized to be charged to deposit acco 01-1651 8. Deposit account number: 01-1651	•
DO NOTIVITA		·
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief, the foregoing information is true and compared to the best of my knowledge and belief.		10/27/98 Date

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	CRAIG R. METZNER 618 SADDLEBACK TERRACE FREMONT, CA 94536	2)	TURGUT SAHIN 11110 CHADWICK PLACE CUPERTINO, CA 95014
3)	GREGORY F. REDINBO 1904 HARRIS AVENUE SAN JOSE, CA 95124	4)	PRAVIN K. NARWANKAR 392 WAVERLY STREET SUNNYVALE, CA 94086
5)	PATRICIA M. LIU 18813 BELLGROVE CIRCLE SARATOGA, CA 95070	6)	

(hereinafter referred to as Assignors), have invented a certain invention entitled:

"DEPOSITION REACTOR HAVING VAPORIZING, MIXING AND CLEANING CAPABILITIES"

for which application for Letters Patent in the United States was filed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignce the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications,

declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u> 10 -27</u> , 1998	Li R. Mas
		CRAIG R. METZNER
2)	Dat 27, 1998	TURGUT SAHIN
3)	OCT 2A 1998	Man J. all
		GREGORY F. REDINBO
4)	Ott 27, 1998	PRAVIN K. NARWANKAR
5)	<u>10-27</u> , 1998	Patricia M IIII





NITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 06, 2004

PTAS

APPLIED MATERIALS, INC. PATENT COUNSEL P.O. BOX 450A, M/S 2061 LEGAL AFFAIRS DEPARTMENT SANTA CLARA, CA 95052



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RECORDATION DATE: 09/29/2003

REEL/FRAME: 014574/0777

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

JANAKIRAMAN, KARTHIK

DOC DATE: 09/26/2003

ASSIGNOR:

INGLE, NITIN

DOC DATE: 09/26/2003

ASSIGNOR:

YUAN, ZHENG

DOC DATE: 09/25/2003

ASSIGNOR:

GIANOULAKIS, STEVEN

DOC DATE: 09/26/2003

ASSIGNEE:

APPLIED MATERIALS, INC.

P.O. BOX 450A

LEGAL AFFAIRS DEPARTMENT

SANTA CLARA, CALIFORNIA 95052

cc: DOCKETING

014574/0777 PAGE 2

SERIAL NUMBER: 10674569

PATENT NUMBER:

FILING DATE: 09/29/2003

ISSUE DATE:

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FOPM PTO-1595 (Rev. 6-93)	r Sheet U.S. Department of Commerce Patent and Trademark Office		
To the Honorable Commission 1. Name of conveying party(ies):	iginal documents 🤳 copy thereof		
	Name and address of receiving party(ies)		
JAN 3 0 2006 Execution Date	Name: Applied Materials, Inc.		
Karthik Janak Raman 4 9-26-03	Sich mer		
Nitin Ingle 9-36-03	Internal Address: Legal Affairs Department		
Zheng Yuan 9-25-03 Steven Gianoulakis 9-26-03	9/ 3		
	Street Address: P.O. Box 450A		
9.29.03	City: Santa Clara State: CA ZIP: 95052		
Additional name(s) of conveying parties attached? Tyes No.	·		
	Additional names and addresses attached? Yes No		
Nature of conveyance:			
o. Nature of conveyance.	į.		
Security Agreement Change of Name			
_	·		
Other:			
Execution Date: _SEE ABOVE	•		
4. Application Number(s) or Patent Numbers.	74569		
If this document is being filed together with a new application, the ex	xecution date of the application is: Sept. 29, 2003		
•			
A. Patent Application No(s): B.	Patent No(s):		
/			
Additional numbers attached?			
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:1_		
Name:	7. Total fee (37 CFR 3.41):\$40.00		
Patent Counsel APPLIED MATERIALS, INC.	☐ Enclosed ☐ Charge Fees to Deposit Account		
Legal Affairs Department			
P.Ö. Box 450A, M/S 2061	Charge any additional fees associated with this paper or during the pendency of this application, or credit any		
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,	Fee authorized on Fee Transmittal – Form PTO/SB/17		
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	8. Deposit account number: 50-1074		
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9. Statement and signature.			
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original document.			
	711000		
Robert W. Mulcahy	Sept. 29, 2003		
Name of Person Signing Sign	pature Date		
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Alexandria, WA 22313-1450			

Attorney Docket No.: A6378C1/145510 AMAT No.: 006328 USA C01/DSM/PMD/JW

No.: 016301-045510US

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Karthik Janakiraman 575 Marble Arch Avenue San Jose, CA 95136 United States	2)	Nitin Ingle 999 W. Hamilton Ave., #97 Campbell, CA 95008 United States
3)	Zheng Yuan 42024 Benbow Drive Fremont, CA 94539 United States	4)	Steven Gianoulakis 4242 Fairlands Drive Pleasanton, CA 95054 United States

(hereinafter referred to as Assignors), have invented a certain invention entitled:

GAS DISTRIBUTION SHOWERHEAD

for which application for Letters Patent in the United States was filed on , under Application No. , executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court

actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignors.

- 3. The term and covenants of this agreement shall inure to the penefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) .	9/26/03	, 2003	Karthik Janakiraman
2)	9/26/03	, 2003	Nitin Ingle
3) .	9/25/03	, 2003	Zheng Yuan
4)	9/26/03	, 2003	Steven Gianoulakis

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